

## EVSC30006 Ecology of Urban Landscapes

| <b>Credit Points:</b>                    | 12.50  |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
|--|--|----------------|----------------------------|----------------|--------------------------------|------------------------|-------|---------|----------------------------|----------------|-------------------|------------|-------|
| <b>Level:</b>                            | 3 (Undergraduate)  |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Dates &amp; Locations:</b>            | 2014, Parkville<br>This subject commences in the following study period/s:<br>Semester 1, Parkville - Taught on campus.  |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Time Commitment:</b>                  | Contact Hours: up to 12 hours of practicals, 24 lectures, 6 field trips Total Time Commitment: 120 hours   |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Prerequisites:</b>                    | <p>Either:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ENVS10001 Natural Environments</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>OR</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ECOL20003 Ecology</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>and an additional 25 points of 200 level subjects.</p>  | Subject        | Study Period Commencement: | Credit Points: | ENVS10001 Natural Environments | Semester 1, Semester 2 | 12.50 | Subject | Study Period Commencement: | Credit Points: | ECOL20003 Ecology | Semester 2 | 12.50 |
| Subject                                  | Study Period Commencement:   | Credit Points: |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| ENVS10001 Natural Environments           | Semester 1, Semester 2   | 12.50          |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| Subject                                  | Study Period Commencement:   | Credit Points: |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| ECOL20003 Ecology                        | Semester 2   | 12.50          |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Corequisites:</b>                     | None   |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Recommended Background Knowledge:</b> | None   |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Non Allowed Subjects:</b>             | None   |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Core Participation Requirements:</b>  | For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a> |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Coordinator:</b>                      | Dr Nicholas Williams   |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Contact:</b>                          | <p><b>Melbourne School of Land &amp; Environment Student Centre</b><br/>Ground Floor, Melbourne School of Land &amp; Environment (building 142)</p> <p><i>Enquiries</i><br/>Phone: 13 MELB (13 6352)<br/>Email: <a href="mailto:13MELB@unimelb.edu.au">13MELB@unimelb.edu.au</a> (mailto:13MELB@unimelb.edu.au)</p>  |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Subject Overview:</b>                 | Australia is one of the most urbanised countries in an increasingly urbanised world. This subject will introduce students to urban ecology and landscape ecology concepts and illustrate how they can be applied to plan and design more ecologically sustainable human landscapes. Topics include the concept of scale in ecology, land transformation and habitat fragmentation, the structure and components of landscapes, patterns and processes along urban-rural gradients, the impacts of urbanisation on biodiversity and strategies to mitigate them.  |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |
| <b>Learning Outcomes:</b>                | Upon completion of the course students should be able to<br># Characterise the components of landscapes  |                |                            |                |                                |                        |       |         |                            |                |                   |            |       |

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|   | <ul style="list-style-type: none"> <li># Outline the causes and consequences of land transformation and habitat fragmentation</li> <li># Understand the processes that operate in landscapes and how urbanisation may affect them</li> <li># Discuss implications of ecological principles for planning and design of sustainable urban landscapes</li> </ul>  |
| <b>Assessment:</b>                            | Major Assignment. Written report suggesting and analysing measures to retrofit an urban area (visited on the field trip) for ecological sustainability (3000-5000 words, weeks 8-12) (30%)<br>Practical reports (Weeks 3 and 6) (20%) Final Exam (2 hours, end of semester) (50%)  |
| <b>Prescribed Texts:</b>                      | A reading pack will be prepared  |
| <b>Breadth Options:</b>                       | <p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2014/B-ARTS">https://handbook.unimelb.edu.au/view/2014/B-ARTS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2014/B-MUS">https://handbook.unimelb.edu.au/view/2014/B-MUS</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p> |
| <b>Fees Information:</b>                      | Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>  |
| <b>Generic Skills:</b>                        | <ul style="list-style-type: none"> <li># Ability to access and critically analyse published literature</li> <li># Ability to collect and analyse data</li> <li># Written and oral communication skills</li> </ul>  |
| <b>Related Majors/Minors/Specialisations:</b> | <p>Ecology and Evolutionary Biology<br/>Environmental Science<br/>Environmental Science major<br/>Environments Discipline subjects<br/>Geography Major<br/>Landscape Management major<br/>Science-credited subjects - new generation B-SCI and B-ENG.<br/>Selective subjects for B-BMED<br/>Urban Design and Planning major</p>  |
| <b>Related Breadth Track(s):</b>              | <p>Greening Urban Landscapes<br/>Natural systems and our designed world</p>  |